

IN THE SPECIFICATION

Please amend the paragraphs of the specification as follows:

Please replace the Summary of Preferred Embodiments with the following new Summary:

SUMMARY OF PREFERRED EMBODIMENTS

A wireless communication system is provided that includes a plurality of terminals including a first terminal, a first origination station and a second origination station. The first terminal is in an idle state during which an RF receiver is off. The first origination station communicates a signal comprising first regular page message over a first regular paging channel and a first quick paging channel page message over a first quick paging channel. The second origination station that communicates a signal comprising second regular page message over a second regular paging channel and a second quick paging channel page message over a second quick paging channel. The first terminal can simultaneously monitor both the first quick paging channel for the first quick paging channel page message and the second quick paging channel for the second quick paging channel page message.

The terminal can activate the RF receiver at predetermined times during which the terminal can potentially receive a quick paging channel page message and records at least a segment of the signal. The terminal can process the signal to determine the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold. When the terminal determines that the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold, the terminal can choose the paging channel to monitor (1) from the origination station having the signal with the strongest signal-to-noise and interference ratio among all the origination stations for which a QCPH page was detected, (2) based on a pre-arranged priority order among the origination stations, or can monitor all of the paging channels for their regular page messages by recording the signals for a period during which a regular page would exist, and processing the signals to receive the possible page on different paging channels. The terminal can serially

process the signals to receive the possible page on different paging channels, or alternatively, can process the signals in parallel to receive the possible page on different paging channels.

When the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold, the terminal can receive symbols from the regular paging channels in parallel and decode the pages from different origination stations in parallel or serially.

The terminal preferably includes a rake receiver having a plurality of fingers, and when the terminal determines the existence of quick paging channel pages from both the origination stations and that the signals are greater than or equal to a threshold, the terminal can receive symbols from the regular paging channels in parallel and decode the pages from different origination stations in parallel or serially by combining only those symbols from fingers locked on paths from the same origination stations, and then decoding these symbols separately.

When the origination stations synchronize quick paging channel pages, the terminal may soft combine the quick paging channel pages from the origination stations to enhance detection.

When there is a delay between regular pages, once the RF receiver is activated, the terminal can detect the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal can soft combine the regular paging channels. Soft combining of the regular paging channels can be done with multiple hypothesis based on the relative delay between the regular paging channels.

When the quick paging channel pages are not synchronized, the terminal can individually detect quick paging channel pages from each of the origination stations separately.

The first origination station can communicate the first quick paging channel carrying the quick paging channel page at a first position, and the second origination station can communicate over the second quick paging channel carrying the quick paging channel page at a second position. The first position and the second position can be the same and do not depend upon identity of the origination stations.

PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

12-14. (Cancelled)

Please add new claims 15-50 as follows:

15. (New) A wireless communication system, comprising:

a plurality of terminals including a first terminal in an idle state during which an RF receiver is off;

a first origination station that communicates a signal comprising first regular page message over a first regular paging channel and a first quick paging channel page message over a first quick paging channel; and

a second origination station that communicates a signal comprising second regular page message over a second regular paging channel and a second quick paging channel page message over a second quick paging channel;

wherein the first terminal simultaneously monitors both the first quick paging channel for the first quick paging channel page message and the second quick paging channel for the second quick paging channel page message.

16. (New) A wireless communication system according to claim 15, wherein the terminal activates the RF receiver at predetermined times during which the terminal can potentially receive a quick paging channel page message and records at least a segment of the signal.

17. (New) A wireless communication system according to claim 16, wherein the terminal processes the signal to determine the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold.

18. (New) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor from the origination station having the signal with the strongest signal-to-noise and interference ratio among all the origination stations for which a QCPH page was detected.

19. (New) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor based on a pre-arranged priority order among the origination stations.

20. (New) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors all of the paging channels for their regular page messages by recording the signals for a period during which a regular page would exist, and processing the signals to receive the possible page on different paging channels.

21. (New) A wireless communication system according to claim 20, when the terminal serially processes the signals to receive the possible page on different paging channels.

22. (New) A wireless communication system according to claim 20, when the terminal processes the signals in parallel to receive the possible page on different paging channels.

23. (New) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors a subset of the paging channels for their regular page messages by recording the signals for a period during which an regular page would exist, and processing the signals to receive the possible page on different paging channels.

24. (New) A wireless communication system according to claim 23, when the terminal serially processes the signals to receive the possible page on different paging channels.

25. (New) A wireless communication system according to claim 23, when the terminal processes the signals in parallel to receive the possible page on different paging channels.

26. (New) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal receives symbols from the regular paging channels in parallel and decodes the pages from different origination stations in parallel or serially.

27. (New) A wireless communication system according to claim 26, wherein the terminal includes a rake receiver having a plurality of fingers, and when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal receives symbols from the regular paging channels in parallel and decodes the pages from different origination stations in parallel or serially by combining only those symbols from fingers locked on paths from the same origination stations, and then decoding these symbols separately.

28. (New) A wireless communication system according to claim 17, wherein the origination stations synchronize quick paging channel pages and wherein the terminal soft combines the quick paging channel pages from the origination stations to enhance detection, and

wherein there is a delay between regular pages, and once the RF receiver is activated, the terminal detects the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal soft combines the regular paging channels.

29. (New) A wireless communication system according to claim 28, wherein soft combining of the regular paging channels is done with multiple hypothesis based on the relative delay between the regular paging channels.

30. (New) A wireless communication system according to claim 17, wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

31. (New) A wireless communication system according to claim 17, wherein the quick paging channel pages are not synchronized, and , wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

32. (New) A wireless communication system according to claim 16, wherein the first origination station communicates the first quick paging channel carrying the quick paging channel page at a first position, and the second origination station communicates over the second quick paging channel carrying the quick paging channel page at a second position, and wherein the first position and the second position are the same and do not depend upon identity of the origination stations.

33. (New) A wireless communication system, comprising:
a plurality of origination stations that each communicate a signal comprising a regular page message over respective regular paging channels and a quick paging channel page message over respective quick paging channels; and
a terminal that, when in an idle state during which an RF receiver is off, simultaneously monitors each of the quick paging channels for their respective quick paging channel page messages.

34. (New) A wireless communication system according to claim 33, wherein the terminal activates the RF receiver at predetermined times during which the terminal can potentially receive a quick paging channel page message and records at least a segment of the signal from the origination station.

35. (New) A wireless communication system according to claim 34, wherein the terminal processes the signal to determine the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold.

36. (New) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor from the origination station having the signal with the strongest signal-to-noise and interference ratio among all the origination stations for which a QCPH page was detected.

37. (New) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor based on a pre-arranged priority order among the origination stations.

38. (New) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors all of the paging channels for their regular page messages by recording the signals for a period during which a regular page would exist, and processing the signals to receive the possible page on different paging channels.

39. (New) A wireless communication system according to claim 38, when the terminal serially processes the signals to receive the possible page on different paging channels.

40. (New) A wireless communication system according to claim 38, when the terminal processes the signals in parallel to receive the possible page on different paging channels.

41. (New) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors a subset of the paging channels for their regular page messages by recording the signals for a period during which a regular page would exist, and processing the signals to receive the possible page on different paging channels.

42. (New) A wireless communication system according to claim 41, when the terminal serially processes the signals to receive the possible page on different paging channels.

43. (New) A wireless communication system according to claim 41, when the terminal processes the signals in parallel to receive the possible page on different paging channels.

44. (New) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal receives symbols from the regular paging channels in parallel and decodes the pages from different origination stations in parallel or serially.

45. (New) A wireless communication system according to claim 44, wherein the terminal includes a rake receiver having a plurality of fingers, and when the terminal determines

the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal receives symbols from the regular paging channels in parallel and decodes the pages from different origination stations in parallel or serially by combining only those symbols from fingers locked on paths from the same origination stations, and then decoding these symbols separately.

46. (New) A wireless communication system according to claim 35,

wherein the origination stations synchronize quick paging channel pages and wherein the terminal soft combines the quick paging channel pages from the origination stations to enhance detection, and

wherein there is a delay between regular pages, and once the RF receiver is activated, the terminal detects the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal soft combines the regular paging channels.

47. (New) A wireless communication system according to claim 46, wherein soft combining of the regular paging channels is done with multiple hypothesis based on the relative delay between the regular paging channels.

48. (New) A wireless communication system according to claim 35, wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

49. (New) A wireless communication system according to claim 35, wherein the quick paging channel pages are not synchronized, and , wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

50. (New) A wireless communication system, comprising:

a plurality of terminals including a first terminal in an idle state during which an RF receiver is off;

a first origination station that communicates a signal comprising first regular page message over a first regular paging channel and a first quick paging channel page message over a first quick paging channel;

a second origination station that communicates a signal comprising second regular page message over a second regular paging channel and a second quick paging channel page message over a second quick paging channel;

a third origination station that communicates a signal comprising third regular page message over a third regular paging channel and a third quick paging channel page message over a third quick paging channel; and

wherein the first terminal simultaneously monitors the first quick paging channel the first quick paging channel page message, the second quick paging channel for the second quick paging channel page message, and the third quick paging channel for the third quick paging channel page message.